

**U. S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT Uranium Program/Bechtel Jacobs Company LLC		2. DATE 10/01/02	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 04.60.04.07		5. WBS ELEMENT TITLE Authorization Basis Documents	
6. INDEX LINE NO. N/A	7. REVISION NO. AND AUTHORIZATION Rev 1		8. DATE 01/23/03
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION N/A		11. BUDGET AND REPORTING NUMBER N/A	
12. ELEMENT TASK DESCRIPTION WBS GRAPHIC <p style="margin-left: 40px;">See attached.</p> INTRODUCTION <p>The Paducah Project must review and update the Safety Authorization Basis Documents for the DOE EM facilities at Paducah and, as necessary, generate new Safety Authorization Basis Documents to ensure that they are current and applicable and contain the necessary requirements to comply with the latest laws, orders, and directives. Revisions to DOE-approved documents are submitted periodically and reflect all changes implemented up to six months prior to submittal. The approval by DOE of any Unreviewed Safety Questions (USQs), revisions to the Technical Safety Requirements (TSRs) and Documented Safety Analyses (DSAs), or revisions to the Authorization Agreements and required documentation submitted by the Contractor to support these approvals is considered an addendum to the authorization basis until the information is incorporated into the next update.</p> LOGIC RELATIONSHIPS <p>Safety Authorization Basis Updates were submitted in 1998 and again in 2000. The 1998 submittal resulted in comments that were binned as “A-Comments” and “B-Comments.” The A-Comments were relatively minor and were resolved with little DOE involvement and integrated into the 2000 Update, the B-Comments will require DOE input and guidance due to complexity (additional analyses may be required).</p> <p>With the enforcement of the new 830 Rule, extensive Authorization Basis work and significant effort will be required to achieve compliance with 10 C.F.R. 830. A plan and schedule for implementation of the new DSAs will be developed, however, the implementation costs are not known at this time. If significant comments are received from DOE such that extensive re-analysis is required, additional funding will be required.</p> <p>Additional documentation will be required for radiological facilities based on the Hazard Assessment Documents. A facility demonstrated to be radiological by inventory would require a HASP. A facility demonstrated to be radiological by analysis would require an Auditable Safety Analysis (ASA). If a facility currently categorized as radiological is demonstrated to be above the Nuclear Category 3 limits, a rule compliant DSA will be generated. The effort associated with the required documentation cannot be projected until the HAD effort is completed (December 2002).</p> SCOPE DESCRIPTION <p>Release Sites and Facilities</p> <p style="margin-left: 40px;">Assessments to be completed N/A</p>			

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Actions to be completed N/A		
Past and Future Accomplishments		
Past accomplishments		
<ul style="list-style-type: none">? Provided project direction and management of associated nuclear safety tasks.? Performed USQD reviews on procedures, projects, tasks, and issues as requested.? Developed task plan to generate Safety Authorization Basis documents compliant with 10CFR830.? Updated Accident and Hazard Analysis documentation and issued revised Plant Safety Operational Analysis.? Maintained Configuration Management Program.? Completed Paducah implementation plan for coordination of SAB documents.? Began effort to upgrade Paducah SAB documents consistent with implementation plan.? Developed Safety Evaluation and TSR Report and provided to DOE.? Generated 2002 SAR Update based on the PAD SAR, KY/EM-174, Rev. 0-1A (1995/1997) with DOE Safety Evaluation Reports (SERs) incorporated, all Unreviewed Safety Question Determinations (USQDs) that have been performed up to March 1, 2002 incorporated, findings and observations from recent SB reviews and audits incorporated, changes from the most recent PSOA incorporated, and a description of DMSAs incorporated.? Initiation of the activities associated with the development of Hazard Assessment Documents (HADs) for each of the Paducah's radiological facilities including the development of facility description documents (FDDs).? Prepare Emergency Management Hazard Assessments (EMHA) for UF6 Cylinder Yards and Paducah Waste Operations Facilities.? Prepare Fire Hazard Assessments (FHA) for C-733 and UF6 Cylinder Yards.? Revise the Fire Hazard Consequence Analysis to determine Offsite consequences for a ruptured cylinder for nuclear and chemical exposures.		
Future accomplishments		
<ul style="list-style-type: none">? Provide project direction and management of nuclear safety tasks.? Complete and submit 10 C.F.R. 830 Rule compliant Documented Safety Analyses (DSAs) by April 10, 2003.? Development of Implementation Plan for DSAs? Provide a response to DOE comments on submitted DSAs.? Complete the hazard categorization for each of Paducah's facilities? Complete Hazard Assessment Documents (HADs) for the remainder of Paducah's radiological facilities.? Develop and submit 10 C.F.R. 830 Rule compliant DSA for any facility, which the hazard categorization changes from radiological to nuclear. (unknown effort at this time).		
Scope		
Authorization Basis support must be provided for the projects including reviews against the current approved Safety Authorization Basis as well as any proposed Safety Authorization Basis documents on any changes to procedures, as-found conditions, test or experiments, new facilities, or other issues. A 10CFR830 compliant Document Safety Analyses will be completed and submitted prior to April 10, 2003 along with any additional documentation the rule requires to be developed. An implementation plan must be developed for new DSAs and the DSAs.		
Safety and Health Work Performance		

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Introduction to the section

It is the core value of Bechtel Jacobs Company that the safety and health of every worker and the public at large, and our environment, are the most important assets we are entrusted to protect. To accomplish this, an Integrated Safety Management System (ISMS), based on DOE's ISMS has been implemented that incorporates the five core functions and is based on the seven guiding principles. The objective of ISMS is to systematically integrate safety and environmental protection into the planning and execution of all work activities. The term safety encompasses Nuclear Safety, Industrial Safety, Industrial Hygiene, Occupational Health, Health Physics, and environmental issues. ISMS requirements flow-down to Bechtel Jacobs Company subcontractors. The Five Core Functions are: (1) Define the scope of work, (2) Analyze hazards, (3) Develop and implement hazard controls, (4) Perform work within controls, and (5) Provide feedback and continuous improvement. The Seven Guiding Principles are (1) Line Management Responsibility for Safety, (2) Clear Roles and Responsibilities, (3) Competence commensurate with responsibility, (4) Balanced Priorities, (5) Identification of Safety Standards and Requirements, (6) Hazard Control Tailored to Work Being Performed, and (7) Operations Authorization.

Before a subproject begins, several activities must be completed that demonstrate that all involved in the project have completed rigorous health and safety reviews and that all potential hazards of doing the work have been identified. The routine activities are conducted in accordance with standard operating procedures, activity hazard analyses, and Integrated Safety Management plans. Non-routine work will require a readiness assessment as necessary to ensure complete health, safety, and environmental reviews prior to work start. This assessment is conducted by people, experienced in similar kinds of work, with the right to examine all aspects of a project about to commence, and require that the project team provide documented evidence that any applicable requirements of the job have been met.

REQUIREMENTS/DRIVERS

Bechtel Jacobs Company LLC Contract DE-AC05-98OR22700, December 18, 1997
Integrated Safety Management System Description, BJC/OR-87, Revision 2, September 1999
List other Requirements/Drivers for the scope of the Subproject (RODs, Permits, Laws)

As applicable, indicate other regulatory-related requirements.
CERCLA: Y/N RCRA: Y/N DNFSB: Y/N DOE Orders: Y/N AEA: Y/N UMTRCA: Y/N State: Y/N Other: Y/N

WASTE VOLUMES

Please see attached waste performance metrics, as applicable.

PROJECT SCHEDULE

Please see attached project summary schedule, and Milestone Status Summary Report.

EXECUTION YEAR BASELINE

Please see attached Budgeted Cost of Work Scheduled Plan.

BASELINE BY YEAR

Please see attached Baseline by Year Report.